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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/072,038	02/07/2002	Aaron J. Shuman	13503US0I	1888
75	90 07/26/2004		EXAMINER	
Tyco Electronics Corporation			LEON, EDWIN A	
Suite 450 4550 New Lind	en Hill Road		ART UNIT	PAPER NUMBER
Wilmington, D	E 19808-2952		2833	
			DATE MAILED: 07/26/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

			at a				
	Application No.	Applicant(s)					
	10/072,038	SHUMAN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Edwin A. León	2833					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	ith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL	Y IS SET TO EXPIRE 3 N	MONTH(S) FROM	:				
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a y within the statutory minimum of thi will apply and will expire SIX (6) MOs, cause the application to become A	reply be timely filed rly (30) days will be considered timely. NTHS from the mailing date of this communic BANDONED (35 U.S.C. § 133).	ation.				
Status							
1) Responsive to communication(s) filed on 16 A	Responsive to communication(s) filed on 16 April 2004 and 14 May 2004.						
2a) ☐ This action is FINAL . 2b) ☒ This	☐ This action is FINAL . 2b) ☑ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under l	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-9 and 17-19 is/are pending in the a	pplication.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) 5 and 7-9 is/are allowed.							
6)⊠ Claim(s) <u>1-4,6 and 17-19</u> is/are rejected. 7)□ Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	or election requirement						
on Glammer and California Tolking and Califor							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
	a priority under 25 H.S.C.	\$ 110(a) (d) ar (f)					
12) Acknowledgment is made of a claim for foreigna) All b) Some * c) None of:	i priority under 35 0.3.C.	3 119(a)-(u) of (i).					
1.☐ Certified copies of the priority documen	ts have been received.						
2. Certified copies of the priority document		Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 		(s)/Mail Date Informal Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other: _						

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DETAILED ACTION

Response to Amendment

1. Applicant's amendment and Request for Continued Examination filed April 16, 2004 and May 14, 2004 in which Claims 1, 5, 7 have been amended and Claims 10-16 have been cancelled, have been placed of record in the file.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-4 and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Myer et al. (U.S. Patent No. 5,643,003). With regard to Claim 1, Myer et al. discloses an electrical connector assembly comprising: a plug (10) having a housing (20) with front (25) and rear (opposite of 25) ends, the front end (25) including a mating interface (25), the housing (20) having a top wall (24), a bottom wall (opposite of 24) and side walls (walls shown in Fig. 3); a receptacle (50) having an opening (51) configured to receive the mating interface (25) of the plug (10); a deflectable latch (30)—including a beam (31), the beam (31) having a front end (front of 30) secured to the plug

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housing (20) proximate the front end (25) of the plug housing (20), the beam (31) extending from the front end (25) of the plug housing (20) rearward toward the rear end (opposite of 25) of the plug housing (20), the beam (31) having a rear, free-standing end (35) which is biasable towards the plug (10) to permit the plug (10) and receptacle (50) to be mated with one another, the latch (30) further including first and second latching projections (38) that are bias able towards the plug (10) and that extend from opposite sides of the beam (31); and first and second latch mating elements (56, 57) formed within the receptacle opening (51), the first and second latch mating elements (56, 57) being positioned to securely engage the first and second latching projections (38) when the plug (10) and receptacle (50) housings are fully mated with one another. See Figs. 1-3 and 7-9.

However, Myer et al. doesn't show the beam disposed along one of the sidewalls.

Still, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have the beam disposed along one of the sidewalls, since it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70.

Furthermore, it has been concluded that absent any convincing showing of the criticality of the design, this particular design is nothing more than the inventor choice without departing from the scope of the invention. *In re Dailey*, 149 USPQ 47 (CCPA 1976).

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With regard to Claim 2, Myer et al. discloses the plug (10) including a cut out portion (below 30) underlying the rear end (35) of the latch beam (31) for permitting increased inward deflection of the latch beam (31) relative to the plug (10). See Figs. 1-3 and 7-9.

With regard to Claim 3, Myer et al. discloses the rear end (opposite of 25) of the latch beam (31) including a beveled inner face (46) for permitting increased inward deflection of the latch beam (31) relative to the plug (10). See Figs. 1-3 and 7-9.

With regard to Claim 4, Myer et al. discloses the first and second latching projections (38) being longitudinally aligned with one another along the length of the latch beam (31). See Figs. 1-3 and 7-9.

With regard to Claim 17, Myer et al. discloses a width of the top wall (24) being greater than a height of the sidewalls (walls shown in Fig. 3). See Figs. 1-3 and 7-9.

With regard to Claim 18, Myer et al. discloses an overall height of the latch (30) being substantially the same as a height of the sidewalls (walls shown in Fig. 3). See Figs. 1-3 and 7-9.

With regard to Claim 19, Myer et al. discloses a distance between outer edges (shown in Fig. 1) of the first and second latching projections (38) being substantially the same as a height of the sidewalls (walls shown in Fig. 3). See Figs. 1-3 and 7-9.

4. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Myer et al. (U.S. Patent No. 5,643,003) in view Sawada (U.S. Patent No. 5,692,923). Myer et al. discloses the claimed invention as shown above, except for a plug keying feature

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keying feature formed within the receptacle opening for mating with the plug keying

feature.

Sawada discloses a similar connector (Fig. 1) having a plug keying feature (13)

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formed along a side wall of a plug housing (1) opposite a latch (14, 15); and a

receptacle keying feature (21) formed within a receptacle opening (17) for mating with

the plug keying feature (13). See Fig. 1.

Therefore, it would have been obvious to one with ordinary skill in the art at the

time the invention was made to modify the connector of Myer et al. by including a plug

keying feature formed along the side wall of the plug housing opposite the latch; and a

receptacle keying feature formed within the receptacle opening for mating with the plug

keying feature as taught in Sawada in order to guide the plug when coupling with the

receptacle. (Sawada, Column 3, Lines 15-21).

Allowable Subject Matter

5. Claims 5 and 7-9 are allowed for the reasons stated in the Office Actions of

August 14, 2003 and February 18, 2004.

Response to Arguments

Applicant's arguments with respect to claims 1-9 and 17-19 have been 6.

considered but are most in view of the new ground(s) of rejection.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edwin A. León whose telephone number is (571) 272-2008. The examiner can normally be reached on Monday - Friday 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on (571) 272-2001. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gary Paumen
Primary Examiner

Edwin A. Leon AU 2833